Attorney Docket No.: 042271

Amendment under 37 CFR §1.116

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1. (Cancelled).

2. (Currently Amended): A semiconductor device comprising:

a semiconductor substrate;

a plurality of transistors formed on a surface of said semiconductor substrate;

an interlayer insulating film for covering said transistors;

a plurality of ferroelectric capacitors formed over said interlayer insulating film, an

electrode of each of said plurality of ferroelectric capacitors being connected to either a source or

a drain of said transistors via a first contact plug; and

a plurality of bit lines formed on said interlayer insulating film, each of said plurality of

bit lines being connected to other of the source or the drain of said transistors via a second

contact plug;

wherein said plurality of ferroelectric capacitors are arranged in an array extending in

longitudinal and lateral directions, and

wherein the second contact plug is located at an intersection in a region including an

intersection of two diagonal lines in [[said]] four closest ferroelectric capacitors out of said

plurality of ferroelectric capacitors.

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3. (Cancelled)

4. (Previously Presented): The semiconductor device according to claim 2,

wherein a straight line connecting the source and the drain of said transistors extends in a direction substantially inclined at an angle of 45 degrees to said longitudinal and lateral directions of the array constituted by the plurality of ferroelectric capacitors.

5. (Cancelled).

6. (Previously Presented): The semiconductor device according to claim 4, further comprising an element isolation insulating film formed on the surface of said semiconductor device and isolating a plurality of element regions,

wherein each element region includes two transistors out of said plurality of transistors, and

wherein a first straight line connecting a first source and a first drain of first one of said two transistors substantially coincides with second straight line connecting a second source and a second drain of second one of said two transistors.

7. (Cancelled).

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8. (Previously Presented): The semiconductor device according to claim 4, further

comprising an element isolation insulating film formed on the surface of said semiconductor

device and isolating a plurality of element regions,

wherein each element region includes two transistors out of said plurality of transistors,

and

wherein a first straight line connecting a first source and a first drain of first one of said

two transistors is substantially orthogonal to a second straight line connecting a second source

and a second drain of second one of said two transistors.

9. (Cancelled).

10. (Previously Presented): The semiconductor device according to claim 6,

wherein said other of the source or the drain of said transistors is shared by said two

transistors in each element region.

11. (Cancelled).

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12. (Previously Presented): The semiconductor device according to claim 8,

wherein said other of the source or the drain of said transistors is shared by said two

transistors in each element region.

13. (Withdrawn): A semiconductor device comprising:

a semiconductor substrate;

a plurality of transistors formed on a surface of said semiconductor substrate;

an interlayer insulating film for covering said transistors;

a plurality of ferroelectric capacitors formed over said interlayer insulating film, an

electrode of each of said plurality of ferroelectric capacitors being connected to one of a source

or a drain of said transistor via a first contact plug; and

a plurality of bit lines formed over said interlayer insulating film, each of said plurality of

bit lines being connected to the other one of the source or the drain of said transistor via a second

contact plug,

wherein said plurality of ferroelectric capacitors are arranged in an array,

wherein each of said ferroelectric capacitors has substantially a rectangular planar shape,

and

wherein the second contact plug is located between respective long sides of two adjacent

ferroelectric capacitors out of said plurality of ferroelectric capacitors.

14. (Cancelled).

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- 15. (Withdrawn- Previously Presented): The semiconductor device according to claim 2, wherein each of said ferroelectric capacitor has substantially a square planar shape, and wherein distances between adjacent ferroelectric capacitors are substantially constant in any of longitudinal or latitudinal directions of array constituted by said ferroelectric capacitors.
- 16. (Withdrawn- Previously Presented): The semiconductor device according to claim 13,

wherein each of said ferroelectric capacitor has substantially a square planar shape, and wherein distances between adjacent ferroelectric capacitors are substantially constant in any of longitudinal or latitudinal directions of array constituted by said ferroelectric capacitors.

17. (Cancelled)

- 18. (Withdrawn): The semiconductor device according to claim 2, wherein said ferroelectric capacitors has substantially a rectangular planar shape, and wherein a distance between long sides of two adjacent ferroelectric capacitors is larger than the distance between short sides of two adjacent ferroelectric capacitors.
 - 19. (Withdrawn): The semiconductor device according to claim 13, wherein said ferroelectric capacitors has substantially a rectangular planar shape, and

wherein a distance between long sides of two adjacent ferroelectric capacitors is larger than the distance between short sides of two adjacent ferroelectric capacitors.

20. (Withdrawn): A semiconductor device comprising:

a semiconductor substrate;

a plurality of transistors formed on a surface of said semiconductor substrate;

an interlayer insulating film for covering said transistors; and

a plurality of ferroelectric capacitors formed over said interlayer insulating film, an

electrode of each of said plurality of ferroelectric capacitors being connected to one of a source

or a drain of said transistor via a first contact plug,

wherein each of said ferroelectric capacitors has substantially a circular planar shape.

21. (Withdrawn): A manufacturing method of a semiconductor device, comprising the steps of:

forming a plurality of transistors on a surface of a semiconductor substrate;

forming an interlayer insulating film for covering the transistors; and

forming a plurality of ferroelectric capacitors over the interlayer insulating film, an electrode of each of the plurality of ferroelectric capacitors being connected to one of a source or

a drain of the transistor via a first contact plug,

wherein the plurality of ferroelectric capacitors are arranged in an array,

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wherein each of the plurality of ferroelectric capacitors has substantially a rectangular

planar shape, and

wherein the ratio between the length of a long side of the rectangular shape and the

distance between the long sides of two ferroelectric capacitors adjacent to each other

substantially coincides with the ratio between the length of a short side of the rectangular shape

and the distance between the short sides of two ferroelectric capacitors adjacent to each other.

22. (Withdrawn): A manufacturing method of a semiconductor device, comprising the

steps of:

forming a plurality of transistors on a surface of a semiconductor substrate;

forming an interlayer insulating film for covering the transistors;

forming a plurality of ferroelectric capacitors over the interlayer insulating film, an

electrode of each of the plurality of ferroelectric capacitors being connected to one of a source or

a drain of the transistor via a first contact plug; and

forming a plurality of bit lines over said interlayer insulating film, each of said plurality

of bit lines being connected to the other one of the source or the drain of said transistor via a

second contact plug,

wherein the plurality of ferroelectric capacitors are arranged in an array, and

wherein the first contact plug is located at substantial central point of a minimal

rectangular shape made by four ferroelectric capacitors out of the plurality of ferroelectric

capacitors.

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23. (Withdrawn): A manufacturing method of a semiconductor device, comprising the

steps of:

forming a plurality of transistors on a surface of a semiconductor substrate;

forming an interlayer insulating film for covering the transistors;

forming a plurality of ferroelectric capacitors over the interlayer insulating film, an

electrode of each of the plurality of ferroelectric capacitors being connected to one of a source or

a drain of the transistor via a first contact plug; and

forming a plurality of bit lines over said interlayer insulating film, each of said plurality

of bit lines being connected to the other one of the source or the drain of said transistor via a

second contact plug,

wherein the plurality of ferroelectric capacitors are arranged in an array,

wherein each of the plurality of ferroelectric capacitors has substantially a rectangular

planar shape, and

wherein the second contact plug is located between respective long sides of two adjacent

ferroelectric capacitors out of the plurality of ferroelectric capacitors.

24. (Withdrawn): The manufacturing method of the semiconductor device according to

claim 21,

wherein each of the plurality of ferroelectric capacitors has substantially a square planar

shape, and

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wherein distances between adjacent ferroelectric capacitors are substantially constant in any of longitudinal or latitudinal directions of arrays constituted by the ferroelectric capacitors.

25. (Withdrawn): The manufacturing method of the semiconductor device according to

claim 22,

wherein each of the plurality of ferroelectric capacitors has substantially a square planar

shape, and

wherein distances between adjacent ferroelectric capacitors are substantially constant in

any of longitudinal or latitudinal directions of arrays constituted by the ferroelectric capacitors.

26. (Withdrawn): The manufacturing method of the semiconductor device according to

claim 23,

wherein each of the plurality of ferroelectric capacitors has substantially a square planar

shape, and

wherein distances between adjacent ferroelectric capacitors are substantially constant in

any of longitudinal or latitudinal directions of arrays constituted by the ferroelectric capacitors.

27. (Withdrawn): The manufacturing method of the semiconductor device according to

claim 21,

wherein each of the plurality of ferroelectric capacitors has substantially a rectangular

planar shape, and

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wherein a distance between long sides of two adjacent ferroelectric capacitors is larger than the distance between short sides of two adjacent ferroelectric capacitors.

28. (Withdrawn): The manufacturing method of the semiconductor device according to claim 22,

wherein each of the plurality of ferroelectric capacitors has substantially a rectangular planar shape, and

wherein a distance between long sides of two adjacent ferroelectric capacitors is larger than the distance between short sides of two adjacent ferroelectric capacitors.

29. (Withdrawn): The manufacturing method of the semiconductor device according to claim 23,

wherein each of the plurality of ferroelectric capacitors has substantially a rectangular planar shape, and

wherein a distance between long sides of two adjacent ferroelectric capacitors is larger than the distance between short sides of two adjacent ferroelectric capacitors.

30. (Withdrawn): A manufacturing method of a semiconductor device, comprising the steps of:

forming a plurality of transistors on a surface of a semiconductor substrate; forming an interlayer insulating film for covering the transistors; and

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forming a plurality of ferroelectric capacitors over the interlayer insulating film, an electrode of each of the plurality of ferroelectric capacitors being connected to one of a source or a drain of the transistor via a first contact plug,

wherein each of the plurality of ferroelectric capacitors has substantially a circular planar shape.